

FIG. 1

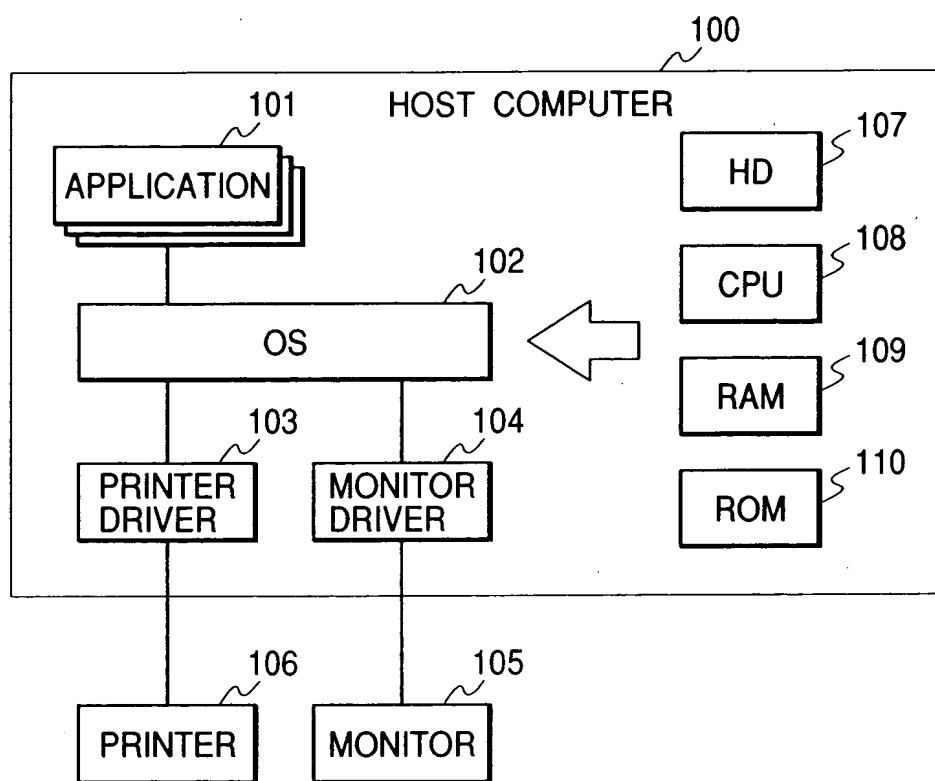


FIG. 2

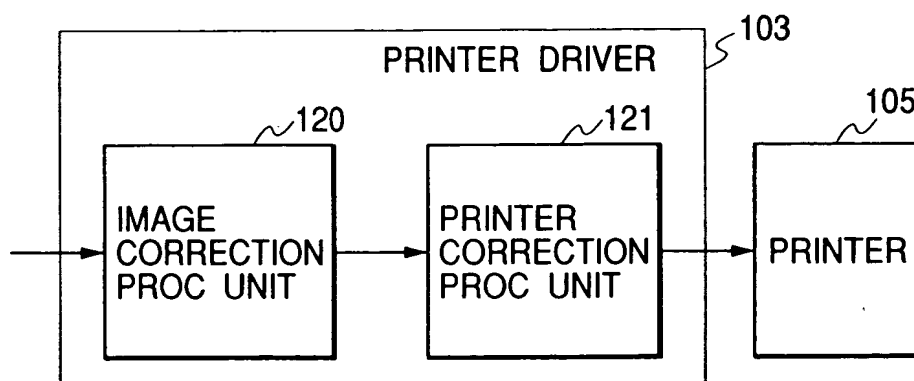


FIG. 3

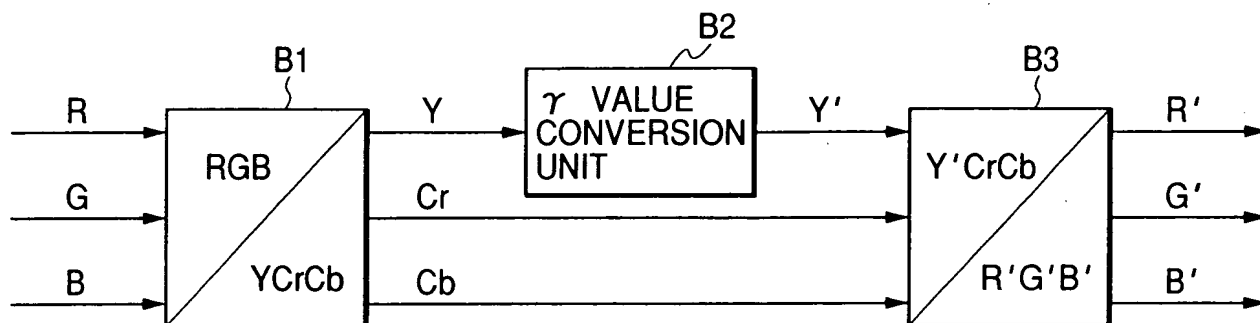


FIG. 4

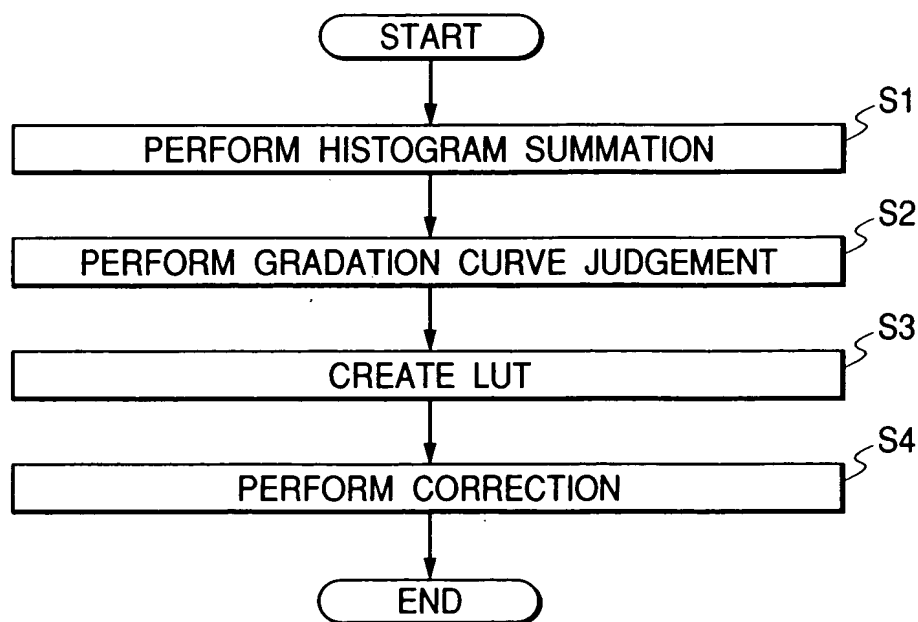


FIG. 5

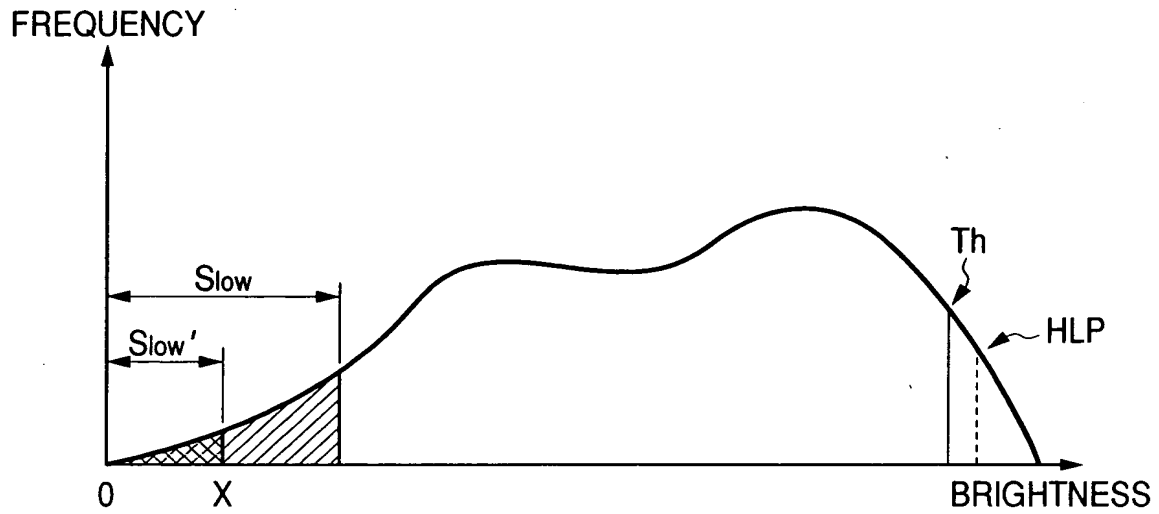


FIG. 6

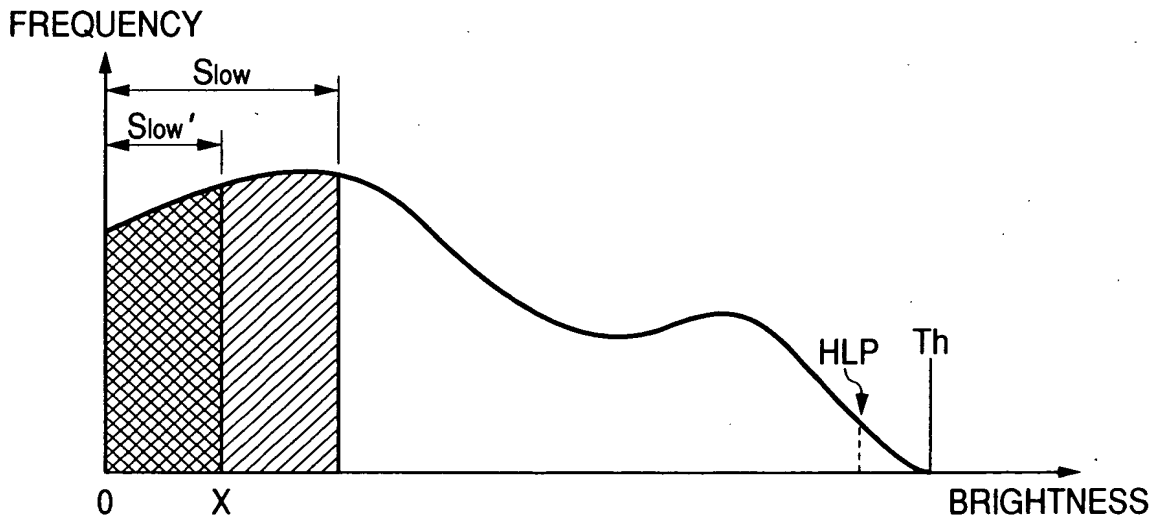


FIG. 7

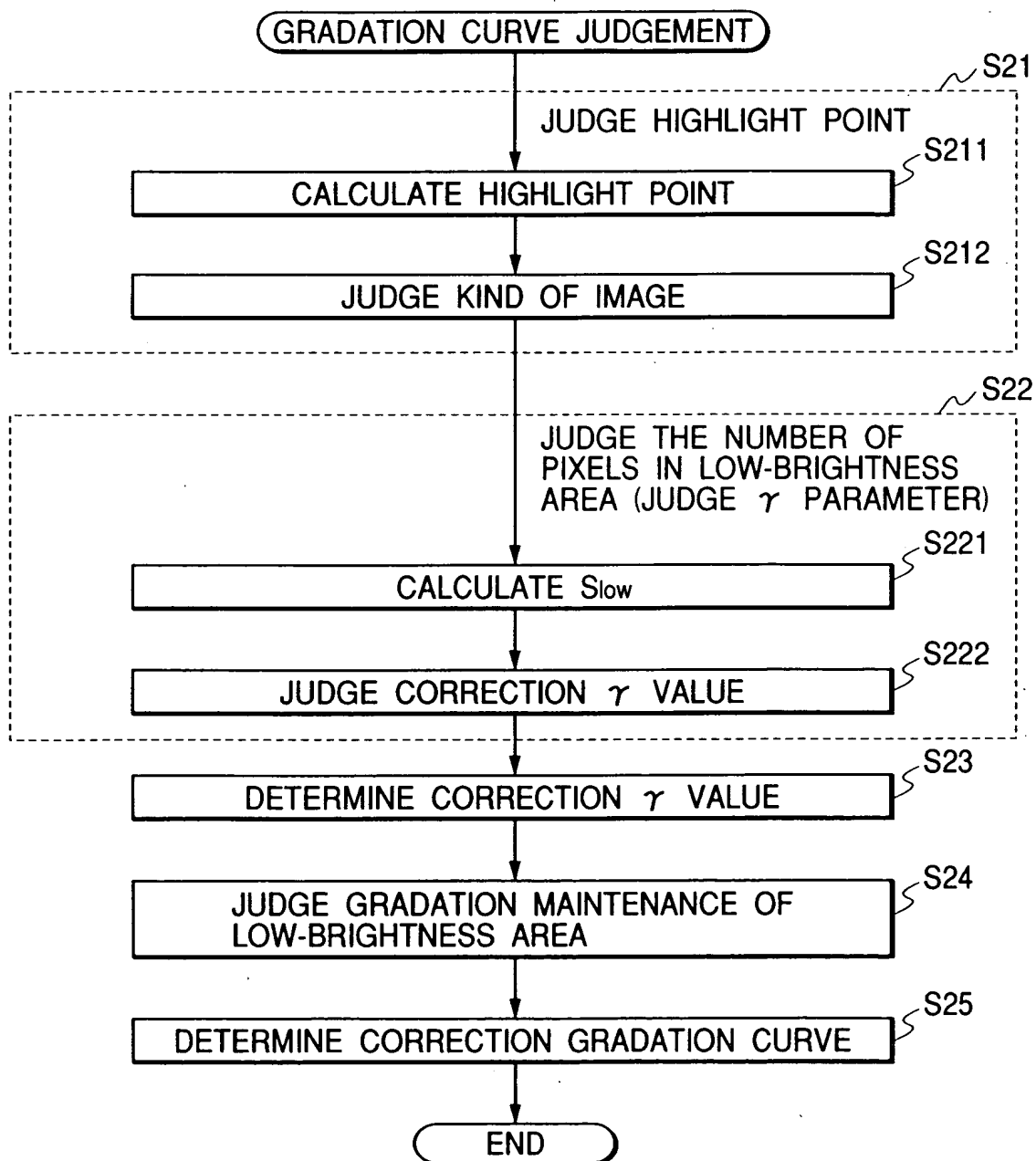


FIG. 8

KIND OF PIXEL	Slow	OPTIMUM γ VALUE
LIGHT	0—30	0.8
	31—60	1
	61—	1.2
DARK	0—15	0.8
	16—30	1
	31—	1.2

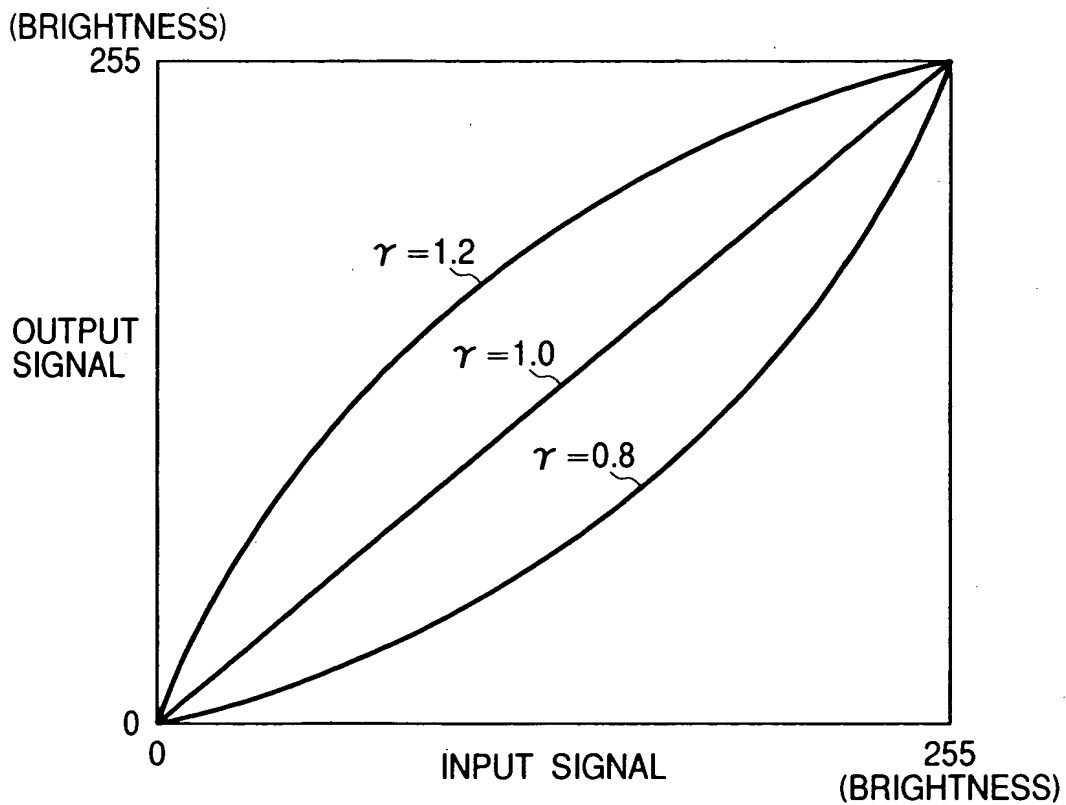
FIG. 9

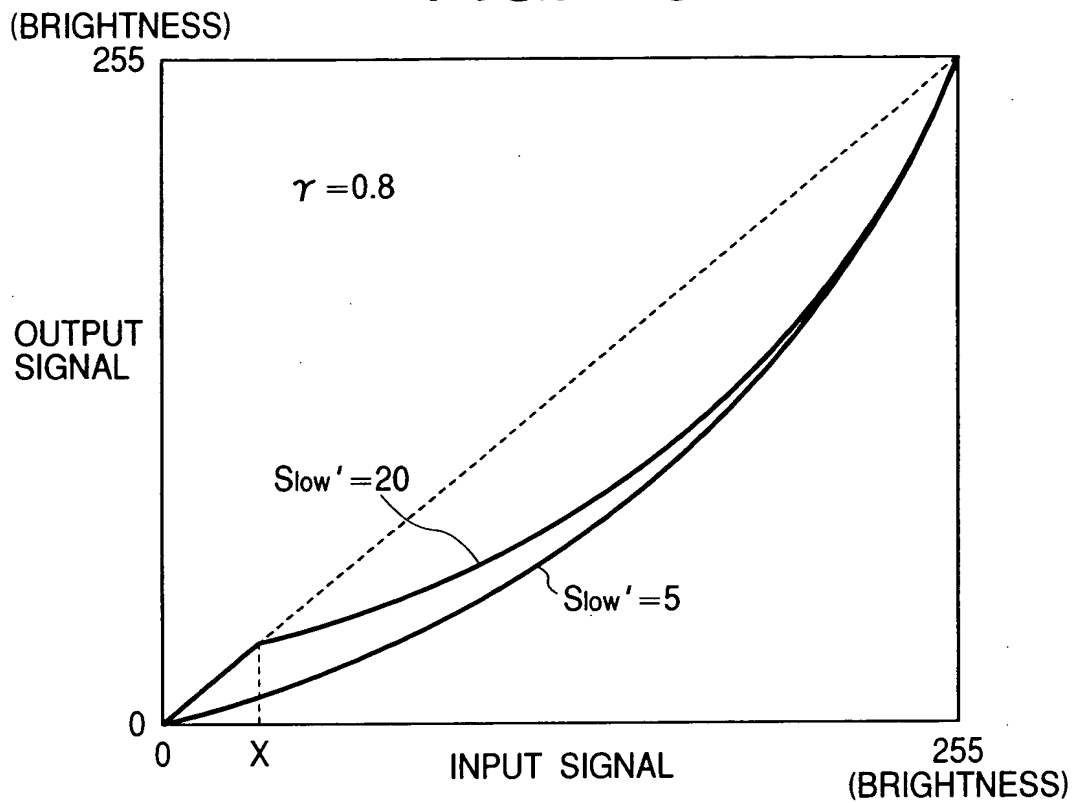
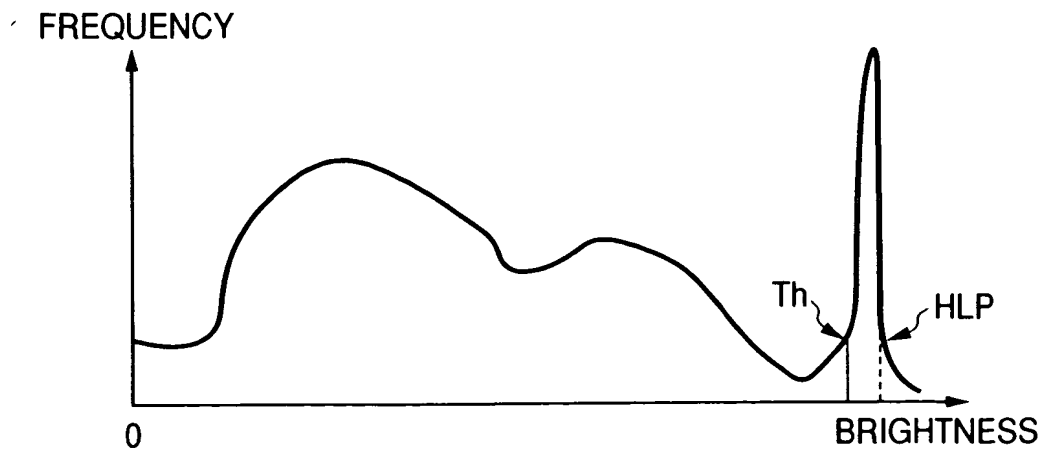
FIG. 10*FIG. 11*

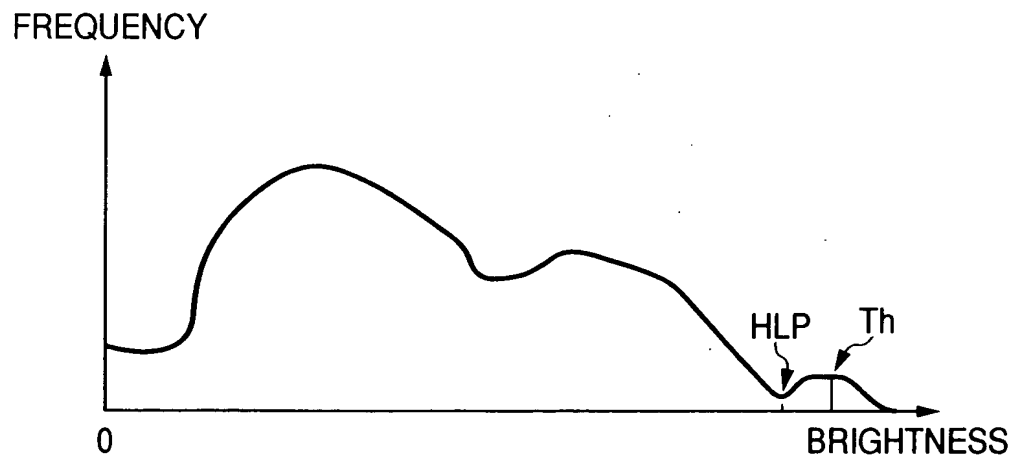
FIG. 12

FIG. 13

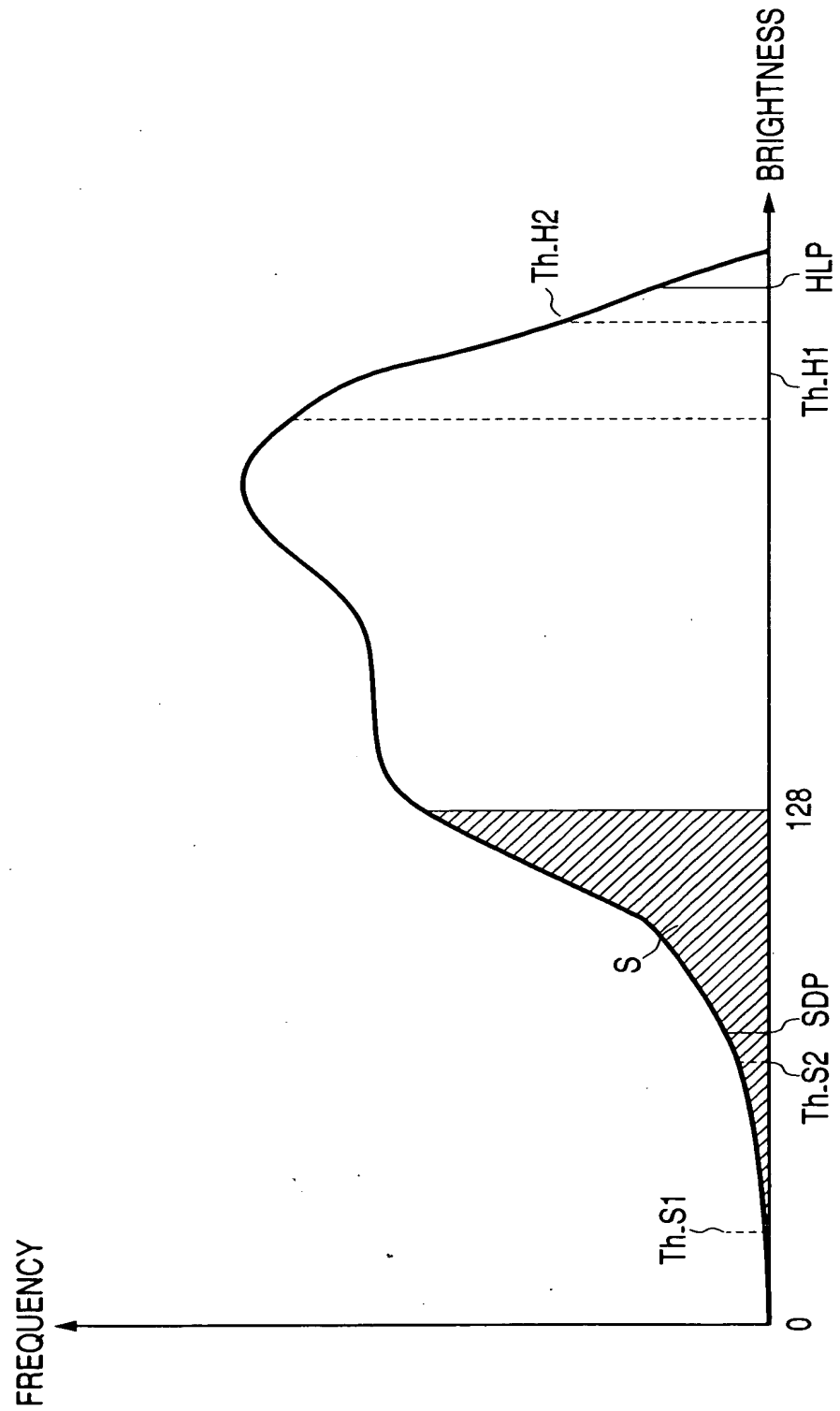


FIG. 14

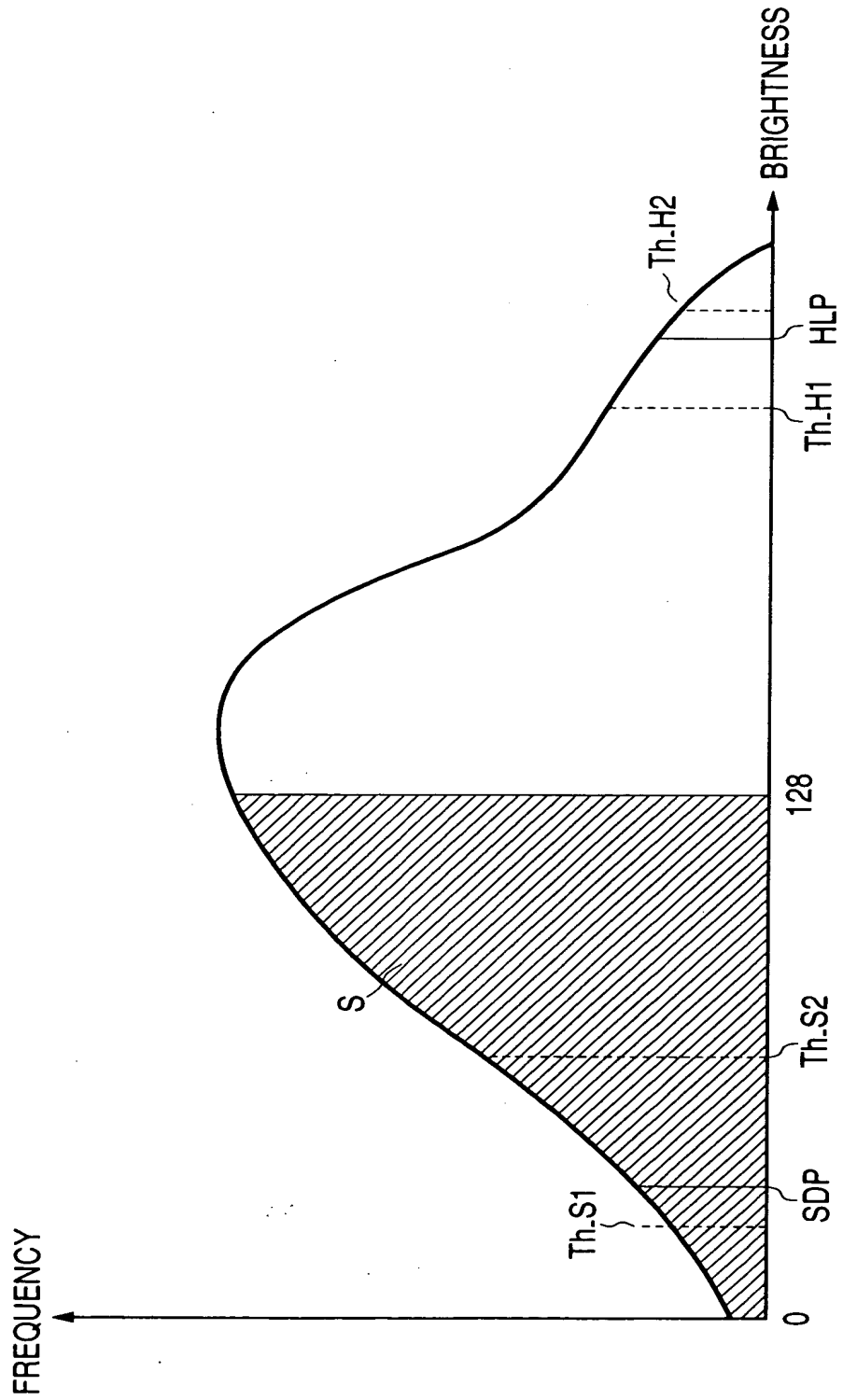
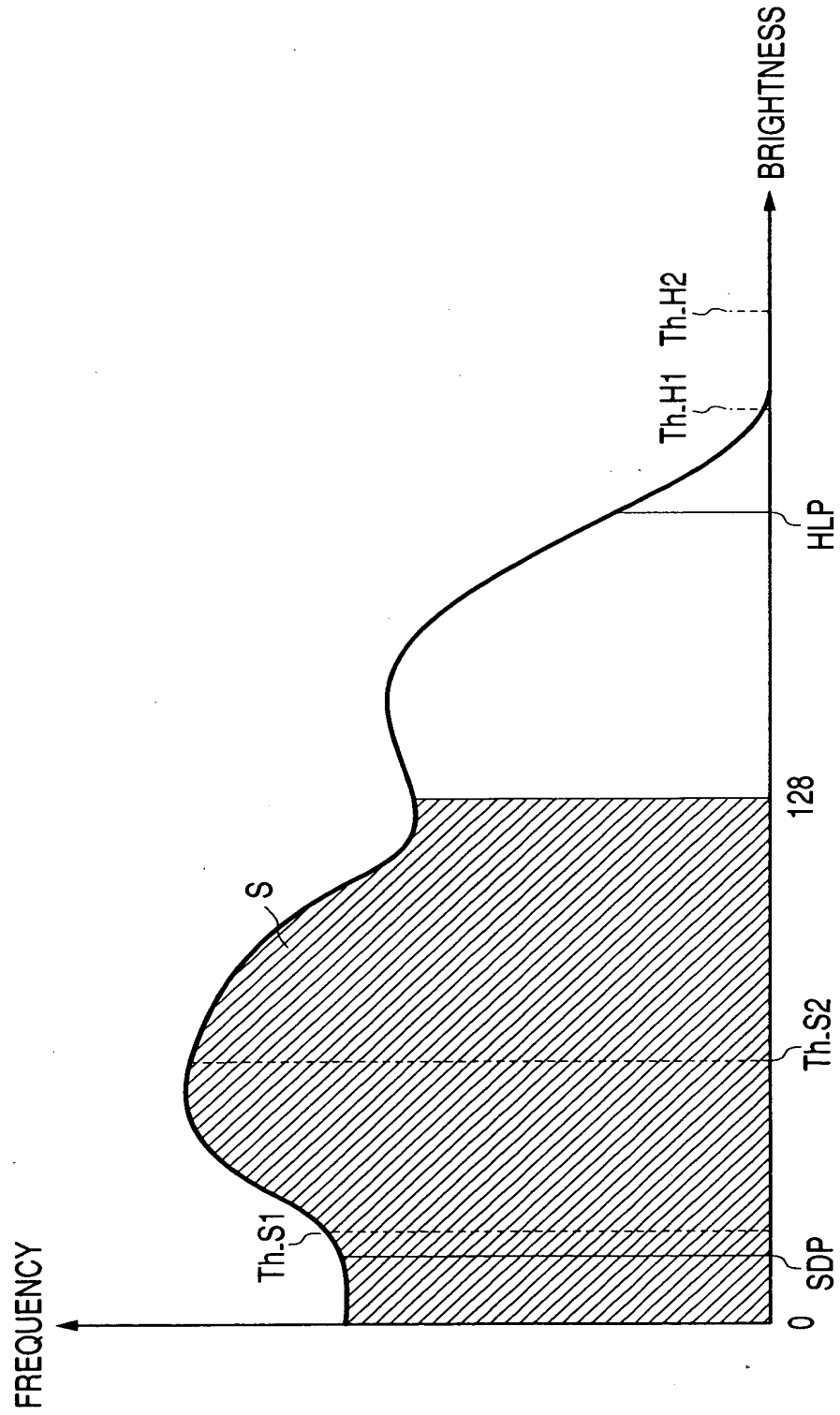


FIG. 15



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graph TD; A([GRADATION CURVE JUDGEMENT]) --> B[CALCULATE HIGHLIGHT POINT S31]; B --> C[JUDGE HISTOGRAM BALANCE S32]; C --> D[CALCULATE SHADOW POINT S33]; D --> E[JUDGE CORRECTION GRADATION CURVE S34]; E --> F([END]);
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The flowchart illustrates the process of gradation curve judgement. It begins with a start node labeled "GRADATION CURVE JUDGEMENT". The process then follows a series of steps: "CALCULATE HIGHLIGHT POINT" (labeled S31), "JUDGE HISTOGRAM BALANCE" (labeled S32), "CALCULATE SHADOW POINT" (labeled S33), and "JUDGE CORRECTION GRADATION CURVE" (labeled S34). The process concludes with an "END" node.

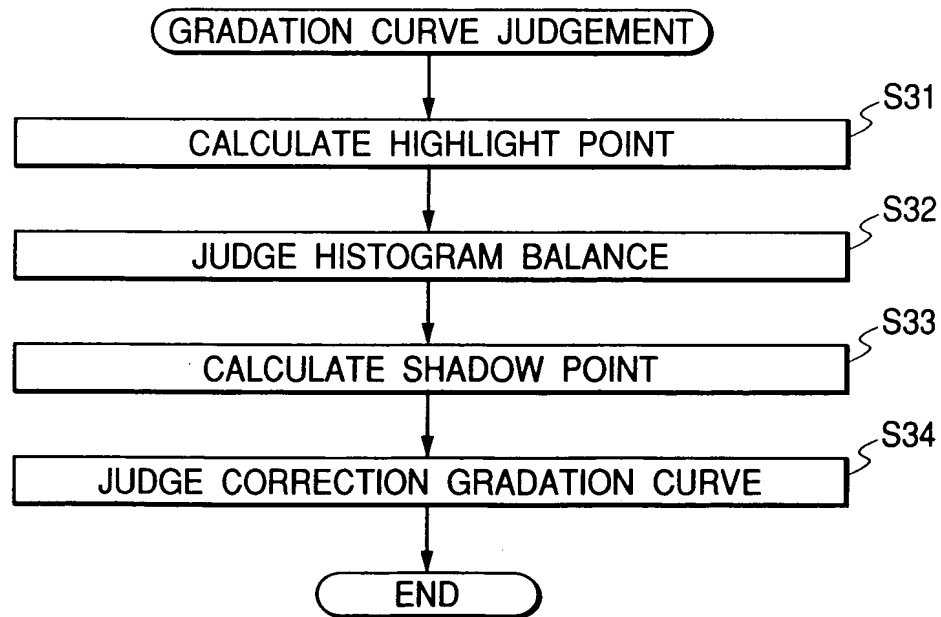


FIG. 17

HLP	BALANCE DEGREE OF HISTOGRAM (S128)	SDP	CORRECTION GRADATION CURVE
-200	0-60	0-10	HIGH-BRIGHTNESS AREA OF 200 OR MORE IS CUT
		11-30	HIGH-BRIGHTNESS AREA OF 200 OR MORE IS CUT, AND $\gamma 0.8$ IS MULTIPLIED
		31-	HIGH-BRIGHTNESS AREA OF 200 OR MORE, AND LOW-BRIGHTNESS AREA OF 30 OR LESS ARE CUT
	61-100	0-5	HIGH-BRIGHTNESS AREA OF 200 OR MORE IS CUT, AND $\gamma 1.2$ IS MULTIPLIED
		6-	HIGH-BRIGHTNESS AREA OF 200 OR MORE IS CUT
201-230	0-30	0-10	$\gamma 0.8$ CURVE
		11-	HIGH-BRIGHTNESS AREA OF 230 OR MORE IS CUT, AND $\gamma 0.8$ IS MULTIPLIED
	31-60	0-5	NO CORRECTION IS PERFORMED
		6-20	S-CURVE
		21-	LOW-BRIGHTNESS AREA OF 20 OR LESS IS CUT
231-255	0-15	0-15	HIGH-BRIGHTNESS AREA OF 230 OR MORE IS CUT
		16-	HIGH-BRIGHTNESS AREA OF 230 OR MORE IS CUT, AND $\gamma 0.8$ IS MULTIPLIED
		0-30	$\gamma 0.9$ CURVE
	16-50	31-50	$\gamma 0.8$ CURVE
		51-	LOW-BRIGHTNESS AREA OF 50 OR LESS IS CUT
	51-100	0-8	NO CORRECTION IS PERFORMED
		9-20	S-CURVE
		21-	LOW-BRIGHTNESS AREA OF 20 OR LESS IS CUT
		0-10	$\gamma 1.2$ CURVE
		11-	$\gamma 1.1$ CURVE

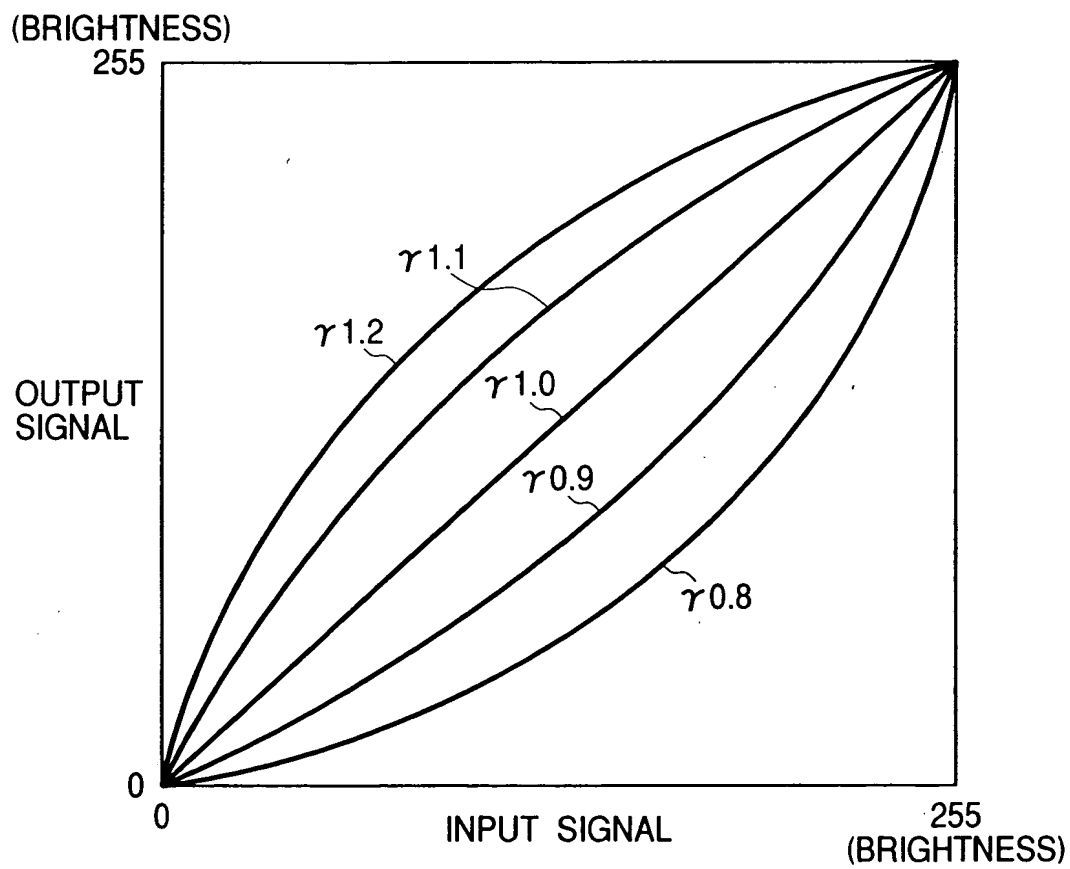
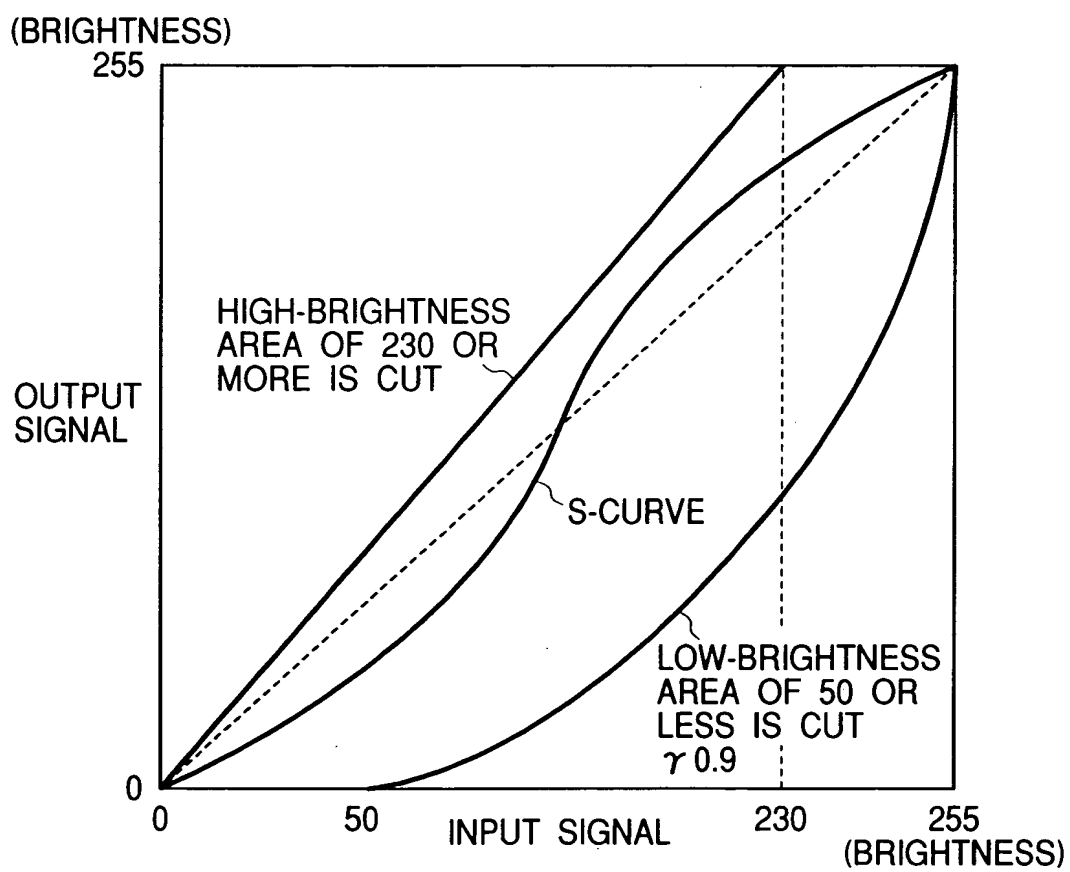
FIG. 18

FIG. 19



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